

SEQUENCE LISTING

<110> Tucker, Kenneth D.
Tillmann, Ulrich F.

<120> MORAXELLA CATARRHALIS OMP21 POLYPEPTIDE, GENE SEQUENCE
AND USES THEREOF

<130> 7969-074

<140> 09/

<141> 1998-10-01

<160> 21

<170> PatentIn Ver. 2.0

<210> 1

<211> 40

<212> PRT

<213> Moraxella catarrhalis

<400> 1

Ala Ile Ser Tyr Gly Asn Ser Ala Asp Ala Gln Pro Tyr Val Gly Ala
1 5 10 15

Lys Ile Gly Gln Val Asp Ala Lys Gln Ile Asn Gly Lys Asn Thr Ala
20 25 30

Tyr Gly Ile Tyr Ala Gly Tyr Asn
35 40

<210> 2

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PRIMER

<400> 2

gaygncarc cntaygt

<210> 3

<211> 17

<212> DNA

<213> Artificial Sequence

17

<220>

<223> Description of Artificial Sequence:PRIMER

<400> 3

tgyttngcrt cnacytg

17

<210> 4

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:PRIMER

<400> 4

gongaygcnc arccontaygt

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<210> 5

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:PRIMER

<400> 5

atnccrtang cngtrttytt

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<210> 6

<211> 543

<212> DNA

<213> MORAXELLA CATARRHALIS

<400> 6

atgaaaactt taaaaaactt attggcagta tcagcttctt cgttattggc gatgagtgtc 60
aacgctgcca tcagctatgg caattctgct gatgctcaac cctatgttgg tgccaaaatt 120
ggcgaagtag acgccaagca aatcaacggt aagaacaccg cttatgggat ttatgcaggt 180
tataactttg accaaaattt tggcgtagaa ccgaatttg ttggttcaga cgccaaagaa 240
tttaatgcag gcgtgagtcc tgtaaaaggt gatgtgaagt cttttggtgc ttatggcaca 300
tatcgctata acttcatcaa taccatttt tatgccaagg gcaaattagg cattgctaag 360
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agcctagcag gcggtgttgg tgttggtttt aaaccattag caaatgtggg cgttgaagca 480
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taa 543

<210> 7

<211> 180

<212> PRT

<213> Moraxella catarrhalis

<400> 7

Met Lys Thr Leu Lys Thr Leu Leu Ala Val Ser Ala Ser Ser Leu Leu
1 5 10 15

Ala Met Ser Ala Asn Ala Ala Ile Ser Tyr Gly Asn Ser Ala Asp Ala
20 25 30

Gln Pro Tyr Val Gly Ala Lys Ile Gly Gln Val Asp Ala Lys Gln Ile
35 40 45

Asn Gly Lys Asn Thr Ala Tyr Gly Ile Tyr Ala Gly Tyr Asn Phe Asp
50 55 60

Gln Asn Phe Gly Val Glu Ala Glu Phe Val Gly Ser Asp Ala Lys Glu
65 70 75 80

Phe Asn Ala Gly Val Ser Pro Val Lys Gly Asp Val Lys Ser Phe Gly
85 90 95

Ala Tyr Gly Thr Tyr Arg Tyr Asn Phe Ile Asn Thr Pro Phe Tyr Ala
100 105 110

Lys Gly Lys Leu Gly Ile Ala Lys Thr Lys Val Asp Val Thr Ser Arg
115 120 125

Asn Ala Thr Thr Tyr Ser Asn Lys Ser Asp Lys Thr Ser Leu Ala Gly
130 135 140

Gly Val Gly Val Gly Phe Lys Pro Leu Ala Asn Val Gly Val Glu Ala
145 150 155 160

Ser Tyr Asn Tyr Leu Ser Glu Asp Ala Asn Ala Ile Ser Leu Gly Ala
165 170 175

His Leu Ala Phe
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<210> 8

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PRIMER

<400> 8
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28

<210> 9
<211> 28
<212> DNA
<213> Artificial Sequence

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<400> 9
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28

<210> 10
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<400> 10
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<210> 11
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<213> Artificial Sequence

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<400> 11
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<210> 12
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<212> DNA
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<400> 12
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18

<210> 13
<211> 18
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<223> Description of Artificial Sequence:PRIMER

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18

<210> 14
<211> 20
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<223> Description of Artificial Sequence:PRIMER

<400> 14
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<210> 15
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<223> Description of Artificial Sequence:COMPOSIT PRIMER

<400> 15
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<210> 16
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<212> DNA
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<223> Description of Artificial Sequence:COMPOSIT PRIMER

<400> 16
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<210> 17
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<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence:COMPOSIT PRIMER

<400> 17

gacggcccg gctggtatca attggcatag gcggttaagt

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<210> 18

<211> 38

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:COMPOSIT PRIMER

<400> 18

catgctgcag cttgaccaat ttggcacca cataggg

38

<210> 19

<211> 40

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:COMPOSIT PRIMER

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cactctgcag tagacgcaa gcaaataaac ggtaagaaca

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<210> 20

<211> 40

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:COMPOSIT PRIMER

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<210> 21

<211> 80

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:DNA FRAGMENT

<400> 21

gacgcscarc cstatgttgg tgccaaaatt ggtcaagtag acgccaagca aatcaacggt 60
agaacaccg cctacggaat 80